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Conservative Surgical Treatment of a Peri-Implant Defect with Open Flap Debridement with a Rotating Titanium Brush: A Case Report of a 2 Year Follow-Up

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Case

A non-smoker male patient of 40 years old, systemically and periodontally healthy, presented with an implant inserted 3 years ago showing bone loss and bleeding on probing. An open flap approach with removal of granulation tissue and debridement implant surface has been performed with a titanium rotating brush (Peribrush, Tigran, Sweden). In the SPT the patient has shown an excellent plaque control at each subsequent recall visits up to 24 months with a total plaque score of 10% and absence of BOP around the fixture.

Follow-up	Clinical parameters	mb	b	db	dp	p	mp
baseline	Plaque (+/-)	+	-	+	-	-	+
12 months	Plaque (+/-)	-	-	-	-	-	-
24 months	Plaque (+/-)	-	-	-	-	-	-
baseline	BoP(0-3)	0	1	0	0	1	1
12 months	BoP(0-3)	0	0	0	0	0	0
24 months	BoP(0-3)	0	0	0	1	0	0
baseline	PPD (mm)	2	5	7	7	6	9
12 months	PPD (mm)	2	3	4	3	3	4
24 months	PPD (mm)	2	3	4	2	2	4

Table 1: Clinical parameters measured at baseline, 12 months and 24 months.



Figure 1: Pre-operative clinical image of the implant with a buccal probing depth of 5 mm.

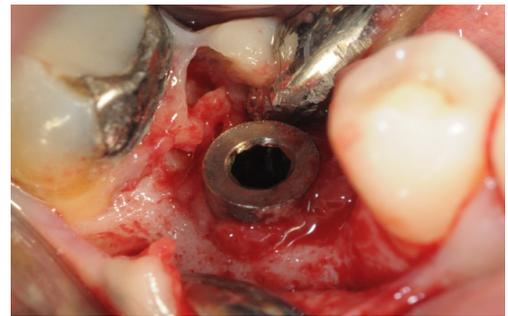


Figure 2: Full-thickness flap elevation. Presence of granulation tissue around the implant neck.



Figure 3: Bone defect and implant surface after the use of titanium peri-brush.

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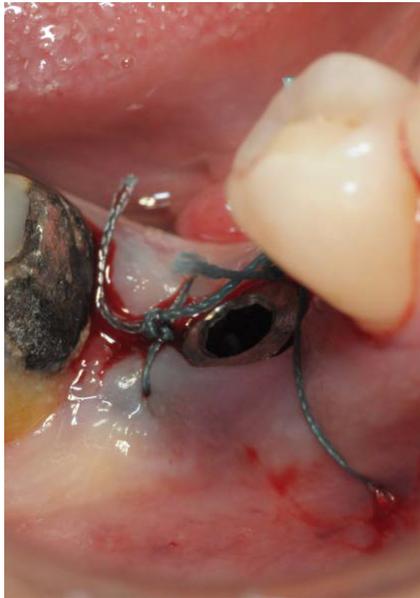


Figure 4: Interrupted suture in place.

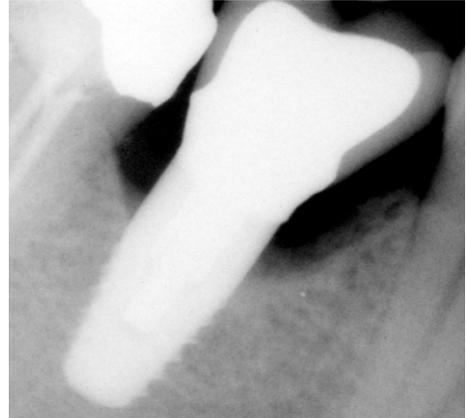


Figure 7: Pre-operative radiographic image of the implant with evidence of marginal bone loss.



Figure 5: Clinical image of the implant tissues at 1 year after surgery.



Figure 8: Periapical x-ray at 6 months after the surgery. Partial remineralization occurring at the coronal portion of fixture.



Figure 6: Clinical image of peri-implant tissues at 24 months after surgery.

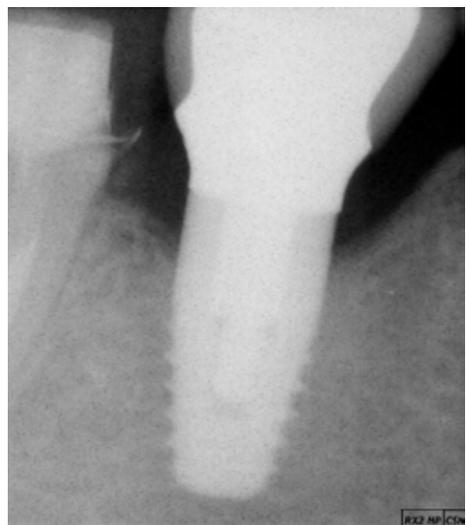


Figure 9: Radiographic image of the implant 12 months after surgery.

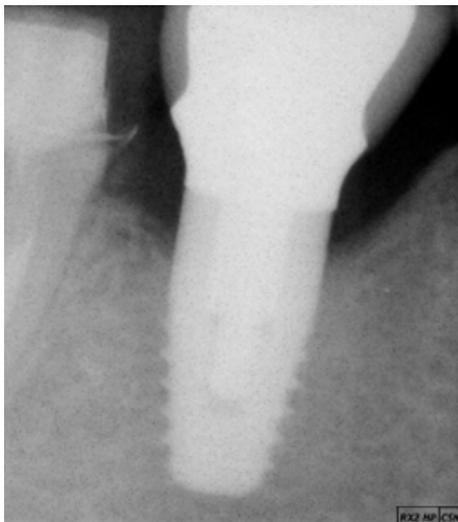


Figure 10: X-ray of implant at 24 months after surgery with further coronal growth of bone and formation of lamina dura.